

Message Text

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TAGS: PARM, US, UR

SUBJECT: TTBT/PNE NEGOTIATIONS - REPORT ON PLENARY, JULY 2

TTBT/PNE DELEGATION MESSAGE NUMBER FORTY-FIVE

1. SUMMARY: NORDYKE DESCRIBED COMPONENTS OF SLIFER SYSTEM AND SPACING AND TIMING CONSTRAINTS THAT MUST BE PLACED ON A CONTAINED GROUP IF SLIFTERS ARE USED FOR VERIFICATION. TIMERBAEV STATED THAT YIELDS OF INDIVIDUAL EXPLOSIVES IN A GROUP COULD BE DETERMINED EITHER BY SLIFER OR GROUND MOTION MEASUREMENTS. DETERMINATION OF NUMBER OF EXPLOSIONS ON BASIS OF MEASURING AGGREGATE YIELD AND YIELDS OF INDIVIDUAL CHARGES BY SLIFER IS APPROXIMATE. SINCE METHOD IS APPROXIMATE, AGGREGATE YIELD OF A GROUP MUST BE LIMITED. THE LIMIT SHOULD NOT BE 500 KT PROPOSED BY US SIDE, BUT SEVERAL TIME LARGER. TIMERBAEV STATED THAT IF VERIFICATION IS BASED ON GROUND MOTION INSTRUMENTS, WITH NUMBER OF INSTRUMENTS DEPLOYED BEING NUMBER OF EXPLSIONS IN GROUP PLUS THREE, THERE ARE NO GROUNDS FOR LIMIT ON AGGREGATE YIELD; HOWEVER, TO MEET VIEWS OF US SIDE AN AGGREGATE YIELD LIMIT OF 3 MT COULD BE ACCEPTED BY SOVIET SIDE. IN ORDER TO ESTABLISH MORE PRECISE DEFINITIONS OF GROUP EXPLOSIONS AND INDIVIDUAL EXPLOSIONS SOVIET SIDE PROPOSES BOUNDARY LINES AS FOLLOWS. IF EXPLOSIONS ARE SPACED IN DISTANCE BY 10 KILOMETERS OR MORE, OR SPACED IN TIME BY 2 SECONDS OR MORE, IT IS POSSIBLE TO DISTINGUISH INDIVIDUAL EXPLOSIONS BY TELESEISMIC MEANS AND THEY ARE TO BE CONSIDERED INDIVIDUAL EXPLOSIONS; IF

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CLOSER, THE EXPLOSIONS CONSTITUTE A GROUP. END SUMMARY

2. NORDYKE STATEMENT DESCRIBED COMPONENTS OF SLIFER SYSTEM: SENSORS, OSCILLATOR, CO-AXIAL CABLE EXTENDING TO SURFACE, AND RECORDER. HE BRIEFLY DESCRIBED PHYSICAL PRINCIPLES INVOLVED, AND SPACING AND TIMING CONDITIONS THAT MUST BE PLACED ON THE SYSTEM. HE NOTED US VIEW WAS THAT VERIFYING SIDE WOULD PROVIDE THE NECESSARY EQUIPMENT; THAT THIS EQUIPMENT WOULD BE INSTALLED BY THE HOST SIDE; AND THAT OBSERVERS WOULD OBSERVE INSTALLATION OF EQUIPMENT AND THE STEMMING OPERATION. NORDYKE STATED THAT FOR GROUP EXPLOSIONS HAVING AGGREGATE YIELDS EXCEEDING THE AGREED LIMITS FOR INDIVIDUAL EXPLOSIONS, AN ARRAY OF SURFACE SEISMOMETERS WOULD BE NEEDED IN THE VERIFICATION OF NUMBERS OF EXPLOSIONS IN SUCH GROUPS IN ADDITION TO SLIFER.

3. TIMERBAEV STATED EXPERTS OF GROUP II AGREED THAT YIELD OF INDIVIDUAL CHARGES OF A GROUP COULD BE DETERMINED BY SLIFER OR GROUND MOTION TECHNIQUES. THUS THERE IS POSSIBILITY TO VERIFY YIELD OF INDIVIDUAL EXPLOSIONS INDEPENDENT OF NUMBER OF CHARGES. AS FOR NUMBER OF CHARGES IN GROUP, THIS PARAMETER IS VERIFIED BY TOTALITY OF DATA INCLUDED IN INFORMATION EXCHANGED, AS WELL AS REPRESENTATIVES OF VERIFYING SIDE WHO WOULD BE PRESENT IF GROUP YIELD EXCEEDED THE ESTABLISHED THRESHOLD. THE DETERMINATION OF NUMBER OF EXPLOSIONS ON BASIS OF MEASURING AGGREGATE YIELD AND YIELDS OF INDIVIDUAL CHARGES, FOR EXAMPLE BY SLIFER, IS APPROXIMATE. IN VIEW OF FACT THAT METHOD IS APPROXIMATE, IN THOSE CASES WHERE WE LACK OTHER METHODS OF VERIFICATION WE WILL BE FORCED TO LIMIT THE AGGREGATE YIELD OF GROUP EXPLOSIONS. WE BELIEVE THAT LIMIT SHOULD NOT BE 500 KT BUT SEVERAL TIMES LARGER. WHEN MEASURING SEISMIC MOTIONS IN CLOSE-IN ZONE THE SOVIET SIDE PROPOSED, AND US SIDE DID NOT OBJECT, TO PROVIDE THREE INSTRUMENTS IN ADDITION TO PROVIDING ONE FOR EACH CHARGE FOR THE PURPOSE OF MEASURING INDIVIDUAL YIELDS. THEREFORE WHEN USING THESE ADDITIONAL INSTRUMENTS THERE ARE NO GROUNDS FOR LIMITING AGGREGATE YIELD OF THESE EXPLOSIONS. SOVIET SIDE STRESSED IN PREVIOUS MEETINGS THERE IS NO NECESSITY TO INTRODUCE SUCH LIMITATIONS ON AGGREGATE YIELD. NEVERTHELESS, MEETING THE US SIDE HALFWAY, WE SUGGEST A LIMIT OF 3 MT.

4. THE LAST POINT THAT REMAINS IS TO DEFINE GROUP AND INDIVIDUAL EXPLOSIONS. SOVIET SIDE IS READY TO INTRODUCE CONDITIONAL
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BOUNDARIES RELYING ON TELESEISMIC MEASUREMENTS. IN OUR VIEW IF TWO EXPLOSIONS ARE AT A DISTANCE OF 10 KILOMETERS OR MORE APART OR SEPARATED BY TWO SECONDS OR MORE IN TIME WE CONSIDER THEM AS BEING INDIVIDUALS. IF THEY ARE CLOSER THEY ARE CONSIDERED AS GROUP EXPLOSIONS.

5. MEETING OF GROUP IV - ADDITIONAL INFORMATION EXCHANGE
SCHEDULED FOR 10:00 A.M. JULY 3. NEXT PLENARY SCHEDULED FOR 3:00

PM JULY 8. US. SIDE WILL SUMMARIZE STATUS OF NEGOTIATIONS AND SUGGEST ADDITIONAL TOPICS THAT SHOULD BE DISCUSSED. SAFRONOV WILL PRESENT STATEMENT FOR SOVIET SIDE ON YIELD LEVELS FOR GROUP EXPLOSIONS.

6. FOLLOWING THE PLENARY, BEZUMOV ASKED WHETHER US WOULD ACCEPT PLACING END OF SLIFER SENSING CABLE 20 METERS FROM TOP OF CANNISTER. NORKYKE POINTED OUT THAT AN ANSWER WOULD DEPEND ON LENGTH OF CANNISTER, AND ASKED WHETHER BEZUMOV WOULD AGREE TO REPHRASING THE QUESTION TO MEASURE THE 20 METERS FROM BOTTON OF CANNISTER. BEZUMOV INDICATED HE WOULD BE INTERESTED IN ANSWER TO SUCH A QUESTION. NORDYKE AGREED TO SEEK AN ANSWER. BEZUMOV ALSO ASKED WHETHER US WOULD ACCEPT STEMMING IN REGION OF SLIFER THAT CONSISTED OF LAYERS OF SAND, CONCRETE AND PEBBLES WITH WATER ON TOP. US EXPERTS AGREED SUCH A STEMMING PLAN WOULD BE ADEQUATE.

7. REFERENCE STATE 155884, PARA 2, DELEGATION WILL APPRECIATE OPPORTUNITY TO REVIEW AND COMMENT OF DRAFT PROTOCOLS AT EARLIEST POSSIBLE TIME.

8. REFERENCE STATE 152574, PARA 1, DELEGATION SOMEWHAT CONCERNED BY POSSIBLE STRESS ON SIMPLICICATION IMPLIED. WE CONSIDER IT OF PRIMARLY IMPORTANCE TO BE COMPREHENSIVE AT THIS STAGE. COMPRESSION AND DELETION OF EXPLICIT DETAIL ARE EASY ADJUSTMENTS TO MAKE IF FOUND DESIRABLE AS NEGOTIATIONS PROCEED.

9. REFERENCE STATE 155884, PARA 3, DELEGATION HAS NOTED SOVIET LANGUAGE IN GENEVA 4909. WE RECOMMEND INCORPORATION OF THAT LANGUAGE, OR U.S. PHRASING WITH EQUIVALENT MEANING, IN PREAMBLE OF DRAFT TREATY.

10. REFERENCE STATE 155884 PARA 4, SUBJECT TO SURPRISES IN DRAFTING PROCGESS, DELEGATION BELIEVES THRE IS CLEAR UNDERSTANDING
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WITH SOVIET SIDE THAT ALL PLANNED RETARCS ARE TO BE CONSIDERED CONTAINED EXPLOSIONS AND ARE TO BE SUBJECT TO LIMITATIONS AND VERIFICATION PROVISIONS AGREED UPON FOR CONTAINED EXPLOSIONS (SEE MOSCOW 9076. THERE IS A REMAINING DIFFERENCE BETWEEN THE TWO SIDES CONCERNING DRILLBACK FOR EXPLOSIONS THAT ARE PLANNED AS "NORMAL" EXCAVATION EXPLOSIONS BUT WHICH FAIL TO PRODUCE CRATERS AND THROW OUT ADEQUATE MELT SAMPLES. SUCH FAILURES MIGHT RESULT IN ACTUAL RETARCS OR ACTUAL CONTAINED CAVITIES OR SOME HYBRID FORMATION. IT IS NOW UNDERSTOOD BETWEEN THE TWO SIDES (SEE MOSCOW 8684) THAT SUCH FAILURES WOULD ACTIVATE AN OBLIGATION TO DRILL BACK REGARDLESS OF ACTUAL YIELD (THE US VIEW), OR IF THE ACTUAL YIELD IS MORE THAN THE AGREED YIELD LIMIT ON INDIVIDUAL CONTAINED EXPLOSIONS (THE SOVIET VIEW). THIS YIELD-DEPENDENT DIFFERENCE OF VIEW BETWEEN THE TWO SIDES REMAINS TO BE RESOLVED.

11. FOSTER ARRIVED ON SCHEDULE.
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